

Hd1 Rabbit pAb

Catalog No.: A20268

1 Publications

Basic Information

Observed MW

50kDa

Calculated MW

43kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Oryza sativa

Background

Probable transcription factor involved in the regulation of flower development. Required for the promotion of flowering under short day (SD) conditions and the suppression of flowering under long day (LD) conditions. Regulates positively the floral activator HEADING DATE 3a (HD3A) under SD and negatively under LD conditions. The GIGANTEA-CONSTANS-FLOWER LOCUS T (GI-CO-FT) pathway to control photoperiodic flowering under LD is conserved between Arabidopsis and rice, but the regulation of the downstream gene by the upstream regulatory gene is reversed in the two species. In Arabidopsis, GI acts as an activator of CO, which in turn activates the floral activator FT under LD conditions. In rice, GI activates HD1/CO in a similar manner to that in Arabidopsis. However, under LD conditions, HD1 suppresses HD3A/FT expression, causing the suppression of flowering.

Recommended Dilutions

WB 1:500 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4340746

Swiss Prot

Q9FDX8

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

Hd1; SE1; OsHd1; Hd1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

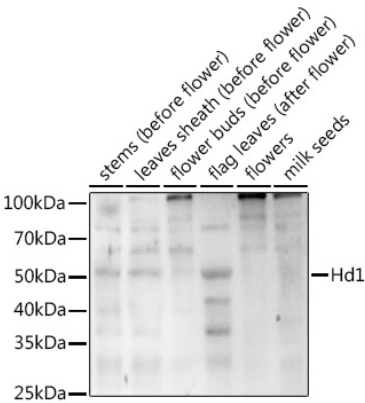
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of extracts of various tissues from the japonica rice (*Oryza sativa* L.) variety Zhonghua 11, using Hd1 Rabbit pAb (A20268) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 120s.